Mathematische Zeitschrift

Band 203 · 1990

Herausgegeben von / Edited by
W. P. Barth, Erlangen
E. Becker, Dortmund
G. Carlsson, Princeton
K. Diederich, Wuppertal
G. Faltings, Princeton
H. Heyer, Tübingen
J. Jost, Bochum
W. Klingenberg, Bonn
W. v. Wahl, Bayreuth
E. Zehnder, Zürich

Wissenschaftlicher Beirat / Advisory Board
T. tom Dieck, Göttingen · E. Heinz, Göttingen
K. H. Hofmann, Darmstadt · J. C. Jantzen, Eugene
A. Pfluger, Zürich · H. Salzmann, Tübingen
H. H. Schaefer, Tübingen · L. Smith, Göttingen
K. Zeller, Tübingen

Springer International

"Mathematische Zeitschrift" was founded in 1918 and edited by *L. Lichtenstein* in cooperation with *K. Knopp, E. Schmidt* and *I. Schur;* after Lichtenstein's death, 1933, it was edited by *K. Knopp*. The Editorial Committee was increased to include *E. Kamke* and *F.K. Schmidt* in 1933, *R. Nevanlinna* in 1936 and *H. Wielandt* in 1950. The latter became Managing Editor in 1952. He was succeeded in 1973 by *H. Salzmann* and 1977 by *H. Heyer.* As of 1984 *W.P. Barth* and *W. v. Wahl* are the managing editors.

Die **„Mathematische Zeitschrift"** wurde im Jahre 1918 von *L. Lichtenstein* unter der Mitwirkung von *K. Knopp, E. Schmidt* und *I. Schur* gegründet und herausgegeben. Nach dem Tode Lichtensteins übernahm *K. Knopp* 1933 die Herausgabe. Die Schriftleitung ergänzte sich 1933 durch *E. Kamke* und *F.K. Schmidt,* 1936 durch *R. Nevanlinna* und 1950 durch *H. Wielandt,* der 1952 die Herausgabe übernahm. 1973 ging die Federführung an *H. Salzmann* und 1977 an *H. Heyer* über. Seit 1984 sind *W.P. Barth* und *W. v. Wahl* geschäftsführende Herausgeber.

Manuscripts may be sent to / Manuskripte nehmen entgegen:

W.P. Barth, Mathematisches Institut der Universität, Bismarckstr. 1½, D-8520 Erlangen, Federal Republic of Germany

E. Becker, FB Mathematik, Universität Dortmund, Postfach 50 05 00, D-4600 Dortmund 50, Federal Republic of Germany

G. Carlsson, Department of Mathematics, University of Princeton, Fine Hall – Washington Road, Princeton, NJ 08544, USA

K. Diederich, Gesamthochschule, Fachbereich 7, Mathematik, Gaußstr. 20, D-5600 Wuppertal 1, Federal Republic of Germany

G. Faltings, University of Princeton, Dept. of Mathematics, Fine Hall – Washington Road, Princeton, New Jersey 08544, USA

H. Heyer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

J. Jost, Mathematisches Institut der Universität, Postfach 10 21 48, D-4630 Bochum, Federal Republic of Germany

W. Klingenberg, Mathematisches Institut der Universität, Wegelerstr. 10, D-5300 Bonn, Federal Republic of Germany

W. v. Wahl, Mathematisches Institut der Universität, Postfach 10 12 51, D-8580 Bayreuth, Federal Republic of Germany

E. Zehnder, Mathematisches Seminar, ETH-Zentrum, Rämistr. 101, CH-8092 Zürich, Switzerland

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher (society); and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US $0.20 per page, or a minimum of US $1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-5874, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Universitätsdruckerei H. Stürtz AG, D-8700 Würzburg
© Springer-Verlag, Berlin Heidelberg 1990
Springer-Verlag GmbH & Co. KG, 1000 Berlin 33
Printed in Germany

Inhalt/Contents

Barrett, D.E.: Complex Analytic Realization of Reeb's Foliation of S^3 355
Bröcker, L., Stengle, G.: On the Mostowski Number 629

Cegrell, U.: A Generalization of the Corona Theorem in the Unit Disc 255

Dillen, F.: The Classification of Hypersurfaces of a Euclidean Space with Parallel Higher Order Fundamental Form 635
Donnelly, H.: Negative Curvature and Embedded Eigenvalues 301

Ekeland, I., Hofer, H.: Symplectic Topology and Hamiltonian Dynamics II 553
Erdmann, K.: On the Vertices of Modules in the Auslander-Reiten Quiver of p-Groups 321

Faran V, J.J.: A Reflection Principle for Proper Holomorphic Mappings and Geometric Invariants 363
Feinsilver, P., Schott, R.: Special Functions and Infinite-dimensional Representations of Lie Groups 173
Fiedorowicz, Z., Schwänzl, R., Steiner, R., Vogt, R.: Non-connective Delooping of K-Theory of an A_∞ Ring Space 43
Floer, A., Hofer, H., Viterbo, C.: The Weinstein Conjecture in $P \times C^l$ 469
Fornari, S., Schroeder, V.: Ramified Coverings with Nonpositive Curvature 123

Geemen, B. van, → Werner, J.
Georgiev, V.: Global Solution of the System of Wave and Klein-Gordon Equations 683
Ginibre, J., Tsutsumi, Y., Velo, G.: Existence and Uniqueness of Solutions for the Generalized Korteweg de Vries Equation 9
Graversen, S.E., Rao, M.: Brownian Motion and Eigenvalues for the Dirichlet Laplacian 699
Greuel, G.-M., Kröning, H.: Simple Singularities in Positive Characteristic 339

Herrlich, F.: The Extended Teichmüller Space 279
Hofer, H., → Ekeland, I.
Hofer, H., → Floer, A.
Horvath, J.: A Dimension Theorem for Vectors Fixed by Unipotent Groups 335

Jiahai, K.: On the Number of Solutions of $p+h=P_r$ 37
Joyner, D.: On the Kuznetsov-Bruggeman Formula for a Hilbert Modular Surface Having One Cusp 59

Kačur, J.: On a Solution of Degenerate Elliptic-parabolic Systems in Orlicz-Sobolev Spaces I 153
Kačur, J.: On a Solution of Degenerate Elliptic-parabolic Systems in Orlicz-Sobolev Spaces II 569
Kröning, H., → Greuel, G.-M.
Kurose, T.: Dual Connections and Affine Geometry 115

Li, A.-M.: Calabi Conjecture on Hyperbolic Affine Hyperspheres 483
Lin, M., Sine, R.: On the Fixed Point Set of Nonexpansive Order Preserving Maps 227
Long, Y.: Periodic Solutions of Superquadratic Hamiltonian Systems with Bounded Forcing Terms 453
Lorentz, R.A.: Uniform Bivariate Hermite Interpolation. I. Coordinate Degree 193
Lück, W., Madsen, I.: Equivariant L-Theory I 503

Madsen, I., → Lück, W.
Michel, J., Perotti, A.: C^k-Regularity for the $\bar{\partial}$-equation on Strictly Pseudoconvex Domains with Piecewise Smooth Boundaries 415

Nakajima, H.: Invariant Subvarieties of Toric Varieties Which are Local Complete Intersections 391
Năstăsescu, C., Raianu, S., Van Oystaeyen, F.: Modules Graded by G-sets 605

Oh, Y.-G.: A Symplectic Fixed Point Theorem on $T^{2n} \times \mathbb{C}P^k$ 535
Oshikiri, G.-I.: On Codimension-one Foliations of Constant Mean Curvature 105

Padula, M.: On the Existence and Uniqueness of Non-homogeneous Motions in Exterior Domains 581
Pagter, B. de: A Note on a Paper by W.J. Ricker and H.H. Schaefer 645
Pan, Y.L.: Stable Harmonic Maps from Pinched Manifolds 493

Perotti, A., → Michel, J.
Prüss, J., Sohr, H.: On Operators with Bounded Imaginary Powers in Banach Spaces 429

Racke, R.: On the Cauchy Problem in Nonlinear 3-d-Thermoelasticity 649
Raianu, S., → Năstăsescu, C.
Rao, M., → Graversen, S.E.
Ruppert, W.M.: When is an Abelian Surface Isomorphic or Isogeneous to a Product of Elliptic Curves? 293

Schott, R., → Feinsilver, P.
Schroeder, V., → Fornari, S.
Schwänzl, R., → Fiedorowicz, Z.
Serrano, F.: Divisors of Bielliptic Surfaces and Embeddings in $\mathbb{P}^4$ 527
Simader, C.G.: An Elementary Proof of Harnack's Inequality for Schrödinger Operators and Related Topics 129
Sine, R., → Lin, M.
Sohr, H., → Prüss, J.
Steiner, R., → Fiedorowicz, Z.
Stengle, G., → Bröcker, L.
Stieber, H.: Über die Existenz von maximalen modularen Unterkeimen und lokalen Modulräumen in der komplexen Analysis 263

Tang, Z.-M.: An Algebraic Approach to the Residues in Algebraic Geometry 1
Tsutsumi, Y., → Ginibre, J.

Van Oystaeyen, F., → Năstăsescu, C.
Velo, G., → Ginibre, J.
Viterbo, C., → Floer, A.
Vogt, R., → Fiedorowicz, Z.
Vuillermot, P.-A.: Quasiperiodic Soliton Solutions to Nonlinear Klein-Gordon Equations on $\mathbb{R}^2$ 235

Werner, J., Geemen, B. van: New Examples of Threefolds with $c_1 = 0$ 211
Wilczyński, D.M.: Symmetries of Homology Complex Projective Planes 309

Xiao, G.: On the Stable Reduction of Pencils of Curves 379,

Covered by *Zentralblatt für Mathematik* and *Current Mathematical Publication*